

IN THE CLAIMS

This listing of claims replaces all prior listings and versions of the claims in the present application:

Listing of Claims:

1-13. (Canceled).

14. (Currently Amended) A manufacturing apparatus to manufacture a cylindrical main body of a wood-like molded product through extrusion molding, the apparatus comprising:

a first crushing device configured to crush a resin waste material;

a second crushing device configured to crush a wood waste material;

at least one member selected from the group consisting of a magnet configured to separate a metal which is attracted to the magnet, an eddy current separator device configured to separate a metal which is not attracted to the magnet but has conductivity, and a gravity separator configured to separate a substance that is not separated by the magnet and the eddy current separator device;

a third crushing device configured to further crush the crushed waste wood material crushed by the second crushing device and separated by at least one among the magnet, the eddy current separator device, and the gravity separator, to produce fine chips,

wherein the first crushing device, the second crushing device, and the third crushing device are each separate crushing devices;

a grinding device configured to grind the fine chips into a fine powder;

a blending mixer configured to mix the fine powder of the wood waste material and the crushed resin waste material to produce a mixed material such that the mixed material

contains 51 to 75 wt% of wood portion, 10 to 45 wt% of resin portion and 20 wt% or less of impurities;

an extrusion molding device configured to heat and melt the mixed material, and to mold the mixed material, a molding temperature of the extrusion molding device being set to 180 to 220°C, and to mold the mixed material into a cylindrical shape through extrusion molding;

a sizer member which includes an opening portion having an inner diameter which is substantially the same as an outer diameter of an extrusion mold product in the cylindrical shape produced by the extrusion molding device through the extrusion molding, and configured to adjust a sectional shape and a dimension of the extrusion mold product by inserting the extrusion mold product into the opening portion; [[and]]

a sanding processing device configured to form a plurality of streaks on the extrusion mold product by sanding a surface thereof with a sanding paper;

a cutting device configured to cut the extrusion mold product, of which the sectional shape and the dimension are adjusted by the sizer member, into a predetermined length, thus forming the cylindrical main body;

a coating device configured to make the surface of the extrusion mold product glossy;  
and

a drying device configured to include a drying region where the extrusion mold product is conveyed from the coating device and is dried.

15. (Currently Amended) A manufacturing apparatus to manufacture a cylindrical main body of a wood-like molded product through extrusion molding, the apparatus comprising:

a first crushing device configured to crush a resin waste material;

a second crushing device configured to crush a wood waste material;  
a magnet configured to separate a metal which is attracted to the magnet;  
an eddy current separator device configured to separate a metal which is not attracted to the magnet but has conductivity;

a gravity separator configured to separate a substance that is not separated by the magnet and the eddy current separator device;

a third crushing device configured to further crush the crushed wood waste material crushed by the second crushing device and separated by the magnet, the eddy current separator device, and the gravity separator, to produce fine chips,

wherein the first crushing device, the second crushing device, and the third crushing device are each separate crushing devices;

a grinding device configured to grind the fine chips into a fine powder;

a blending mixer configured to mix the fine powder of the wood waste material and the crushed resin waste material to produce a mixed material such that the mixed material contains 51 to 75 wt% of wood portion, 10 to 45 wt% of resin portion and 20 wt% or less of impurities;

an extrusion molding device configured to heat and melt the mixed material, and to mold the mixed material, a molding temperature of the extrusion molding device being set to 180 to 220°C, and to mold the mixed material into a cylindrical shape through extrusion molding;

a sizer member which includes an opening portion having an inner diameter which is substantially the same as an outer diameter of an extrusion mold product in the cylindrical shape produced by the extrusion molding device through the extrusion molding, and configured to adjust a sectional shape and a dimension of the extrusion mold product by inserting the extrusion mold product into the opening portion; [[and]]

a sanding processing device configured to form a plurality of streaks on the extrusion mold product by sanding a surface thereof with a sanding paper;

a cutting device configured to cut the extrusion mold product, of which the sectional shape and the dimension are adjusted by the sizer member, into a predetermined length, thus forming the cylindrical main body;

a coating device configured to make the surface of the extrusion mold product glossy;  
and

a drying device configured to include a drying region where the extrusion mold product is conveyed from the coating device and is dried.

16-24. (Canceled).

25. (Previously Presented) The apparatus according to claim 14, further comprising:  
a first path configured to supply the crushed resin waste material obtained from the first crushing device to the blending mixer; and  
a second path configured to supply the fine powder of the wood waste material obtained from the grinding device to the blending mixer.

26. (Previously Presented) The apparatus according to claim 15, further comprising:  
a first path configured to supply the crushed resin waste material obtained from the first crushing device to the blending mixer; and  
a second path configured to supply the fine powder of the wood waste material obtained from the grinding device to the blending mixer.